Tile Tester

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What we know (from pCDR)

Simulations Hadronic Calorimeter

- The geometry
- Size of PCB
- Distance between fiber and SiPM
- There will be no optical connection between fiber and SiPM

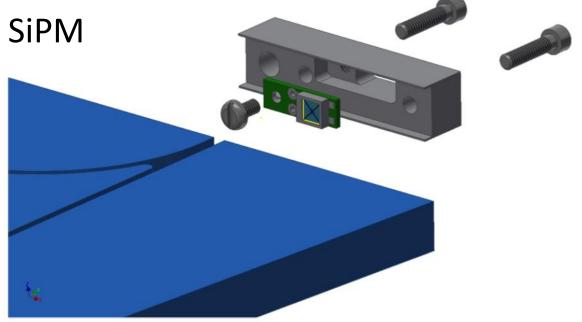


Figure 6.6: Design of the small plastic fixture coupling the fiber to an SiPM.

We need to know for the next step

- What we have on the PCB
- Rough estimation about the number of photons
 - form a cosmic muon in the tile,
 - in the fibers,
 - at the SiPM
- and the signal from preamp (amplitude, length ...)

Our v0 plan

Use what we have in SiPM tester

• Redpitaya, need the signal to its ADC

• 8 channels needs 4 Redpitaya and minimal changes in FPGA and C

code.

The result can be in root,
but we can create
a simple GUI with
green/red light

